

### Claims

1. (Presently amended) A method for determining the biological activity of a ~~compound~~ pegylated protein which can modulate gene transcription, comprising the steps of
  - a) contacting a host with ~~a compound~~ said pegylated protein;
  - b) determining the ~~general~~ transcriptional gene response of the genes of SEQ ID NOS: 1-29 of the host; and
  - c) quantitating the ~~general~~ determined transcriptional gene response induced by said compound.
2. (Presently amended) The method of claim 1, wherein the ~~general~~ transcriptional gene response is determined by a DNA array technology.
3. (Original) The method of claim 2, wherein the DNA array technology is an oligonucleotide array technology.
4. (Canceled).
5. (Canceled).
6. (Presently amended) The method of claim 1, wherein the pegylated protein is a specific isolated isoform of a pegylated protein.

7. (Presently amended) The method of claims ~~5~~1, wherein the pegylated protein is Epo or ~~INF~~IFN.

8. (Canceled).

9. (Canceled).

10. (Canceled).

11. (Canceled).

12. (Presently amended) A method for identifying compounds that modulate gene transcription comprising determining the biological activity of a first compound which is a ~~known~~ modulator of gene transcription by the method of ~~of~~ claim 1 in the presence or absence of a second compound, wherein a compound which modulates gene transcription is identified if the biological activity of the first compound measured in the presence of said second compound is significantly different from the biological activity of the first compound measured in the absence of said second compound.

13. (Presently amended) The method of claim ~~13~~12 wherein the ~~known~~ modulator of gene transcription is Epo or IFN.